WHAT IS CLAIMED IS:

1. A method for reducing image noise, wherein the image is composed of a plurality of pixels having a scale of bits, comprising the steps:

reducing a plurality of bits of the scale of each pixel in the image; and

5   recombining the scale of each pixel in the image.

2. The method for reducing image noise of claim 1, wherein after the step of recombining the scale of each pixel in the image, further comprising a step:

filling out missing codes of each pixel of the image.

3. The method for reducing image noise of claim 1, wherein the step of reducing a

10   plurality of bits of the scale of each pixel in the image can reduce the scale of each pixel in the image.

4. The method for reducing image noise of claim 1, wherein the step of recombining the scale of each pixel in the image comprises a halftone pattern method.

5. The method for reducing image noise of claim 4, wherein a pattern composed

15   by the halftone pattern method is a matrix pattern.

6. The method for reducing image noise of claim 5, wherein the row and column numbers of the matrix pattern are dependent on the number of bits reduced in the step of reducing a plurality of bits of the scale of each pixel in the image.

7. The method for reducing image noise of claim 2, wherein the step of filling out

20   missing codes of the pixels of the image comprises a bit enhance method.

8. A method for reducing image noise, wherein the image is composed of a plurality of pixels having a scale of bits, comprising the steps:

reducing a plurality of bits of the scale of each pixel in the image;

recombining the scale of each pixel in the image; and

filling out missing codes of each pixel of the image.

9. The method for reducing image noise of claim 8, wherein the step of reducing a plurality of bits of the scale of each pixel in the image can reduce the scale of each pixel in the image.

10. The method for reducing image noise of claim 8, wherein the step of recombining the scale of each pixel in the image comprises a halftone pattern method.

11. The method for reducing image noise of claim 10, wherein a pattern composed by the halftone pattern method is a matrix pattern.

12. The method for reducing image noise of claim 11, wherein the row and column numbers of the matrix pattern are dependent on the number of bits reduced in the step of reducing a plurality of bits of the scale of each pixel in the image.

13. The method for reducing image noise of claim 8, wherein the step of filling out missing codes of the pixels of the image comprises a bit enhance method.